

FOLIO

UNIVERSITY OF ALBERTA
17 FEBRUARY 1995



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Should a 'superboard' govern all of Edmonton's postsecondary institutions?

By Michael Robb

Should Edmonton have a board to govern postsecondary institutions within the region? That was one provocative question posed at the University of Alberta's Senate meeting last Friday at Grant MacEwan Community College.

Addressing Senators and presidents and board members from the city's major postsecondary institutions, Senate member Iris Evans said, "It may be perceived as treason, but I'm struck by the fact that there are so many regional governance linkages going on in the health sector and in elementary and secondary education.

"Should board members from all institutions be looking at a collaborative model where there are not boards specific to institutions, but a board for those institutions within a specific area? I know that sounds like a real travesty to consider, but if you had someone from each institution in a policy setting at one table on a regular basis, would we in fact have the partnerships and less overlapping than we've experienced in the past?"

Evans said it's clear the public is applauding the reduction of politicians. Would students applaud a reduction of some of us in the process? She wondered whether some of the long-standing territorial imperatives would be eroded in such a system of governance.

Phyllis Anderson, vice-chair of the GMCC Board, welcomed the comments. She said the issue Evans raised would likely be a topic for discussion when board members from various institutions attend a 23-25 March workshop entitled, "Agenda for Change: Just Do It."

People are talking about developing centres of excellence, ending duplication in programming and modes of delivery, and establishing alliances and other kinds of governing structures, Anderson said. "We all need to make changes and boards are in the best posi-

tion to take leadership roles in making those changes."

The Senate meeting was an opportunity for presidents of the city's postsecondary institutions to explain to one another the role their respective institutions play and the challenges they face. Many representatives applauded the University of Alberta Senate for the initiative. "This is the first time in the history of Edmonton that we have all the institutions of higher learning under one roof," GMCC President Gerry Kelly noted.

Keeping the costs of education affordable was a common theme among the presidents, as was the need to establish more partnerships with industry. Many suggested that their institutions must diversify their sources of funding as the provincial government cuts back its support. Dr Kelly said GMCC will increasingly become self-reliant. Funding is the North American Baptist College's primary challenge, said President Paul Siewert, since that institution does not receive government funding.

The Northern Alberta Institute of Technology has to maintain and expand service to students by generating new program initiatives, cooperative training formats and partnerships which align with the special purpose program directions of the institute, said NAIT President Stan Souch.

U of A President Rod Fraser outlined six strategies the University would pursue as it seeks to become one of the country's finest research-intensive universities: focus relentlessly on quality; monitor its performance; establish creative alignments; create a responsive management system; commit itself to selectivity; and, constantly seek and establish partnerships. (Please see page 4 for more Senate news.)

Admission application now at students' fingertips

Pilot project eases access

By Sandra Jenkins, Acting Associate Registrar and Director of Admissions

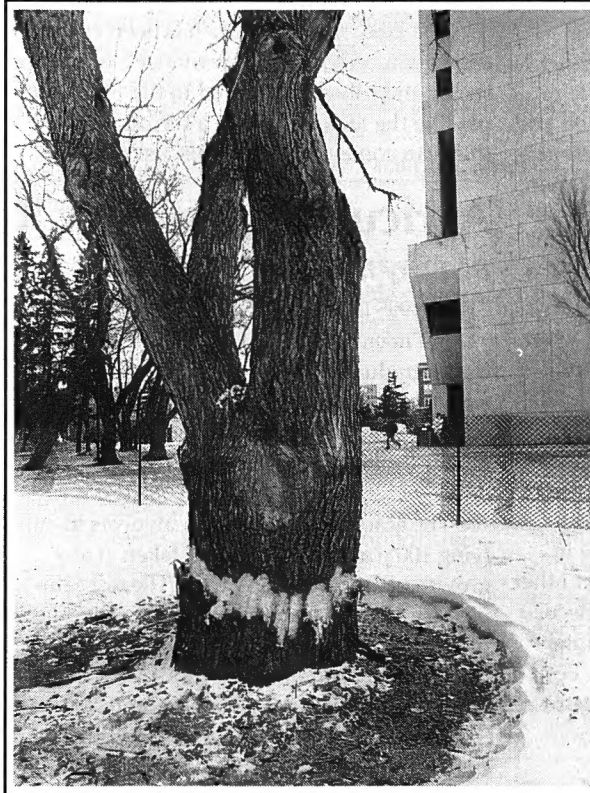
The Registrar's Office, in collaboration with colleagues at the Universities of Calgary and Lethbridge, is putting the finishing touches on a pilot project which will allow high school students to submit applications for admission electronically to one or more of the cooperating universities.

The project began two years ago when the U of C built a stand alone PC-based electronic application for use in Calgary high schools. The U of A expressed an interest in the concept and last spring preliminary work began to develop a shared electronic application for admission pilot.

Terry Kroetsch, information management analyst in the Registrar's Office, under the direction of team leader, Jim Doran, developed the shared electronic application program to meet the needs of both student applicants and the institutions receiving the electronic application forms. One of the challenges was to ensure that the program could run on a relatively low level machine, many of which are still in use in the schools across the province.

High school students should find the electronic admission application form easy to complete. Incorporated in the basic de-

Continued on page 3



Death sentence for heritage tree

A 50-year-old flowering crab tree, moved from the Timms Centre site to save it for posterity, has been savagely "girdled" with an axe. Girdling involves cutting through the bark and sap layers of the tree in a ring, or girdle. The act is a death sentence unless extraordinary grafting measures are able to work. "I am just sick," said an outraged Greg Williams of Physical Plant when he reported the damage to Folio. The tree was girdled on or about 9 February. Anybody with information or knowledge about this act should contact Campus Security Services. The flowering crab tree was moved in June 1993 to the northwest side of the Education complex before construction started on the Timms Centre for the Arts.

Goodbye after 28 years

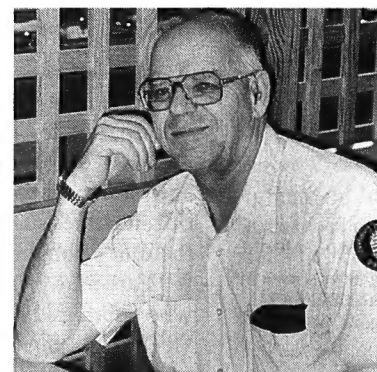
By Elsa Roehr

At the end of February, Charles Magnusson will deliver his last round of campus mail. At one point or another in his 28 years at the University of Alberta, most of it in Scheduled Distribution, he has served every Faculty and department on campus.

"I opted for the early retirement package, largely because of problems with my eyes," he says. Magnusson is just above legally blind, and his eyes are highly sensitive to light. "I really appreciated the kindness and tolerance of my supervisors and co-workers. Because of my eyes, I couldn't have done this job without their support."

Those words mark mixed feelings about his retirement. "Working here is a way of life.

I have a lot of friends here, lots of people I know. I've been rotating my walk routes for the last six months so I could say goodbye to all my customers. On the other hand, there will be no more alarm clocks, no more uniforms." A talented wood carver, Magnusson plans to tackle some "big projects" and looks forward to more community involvement.



Charles Magnusson has given half his life to the U of A. He started when he was 27 years and seven months old and is leaving 27 years and five months later.

One of Magnusson's cherished memories is delivering mail to an office that was having a party. "There was standing room only, lots of academics standing around. One doctor said, 'Make way for him; he's the most important guy here. He brings us our bread and butter.' It really made me feel good to get that respect."

Magnusson's co-workers will honour his retirement on 27 February, which is also his birthday.

Applied degrees part of Throne Speech

By Folio staff

The Alberta government has confirmed its intention to authorize colleges and technical institutions to offer applied degree programs that combine formal instruction with work experience. And it will provide financial help to postsecondary students, regardless of where in the province they choose to study.

Those two points were in Monday's Speech from the Throne that opened the

spring session of the legislature. In the speech, government says it will be focusing adult education and training on accessibility, affordability and responsiveness as part of its emphasis on people.

For your own copy of the Speech from the Throne, call the Alberta government RITE operator at 310-0000. To share your comments with the Alberta government, call 427-7711.

Horowitz Institute to offer professional development

Complex education system to be focus

By Sandra Halme

A new initiative in the Faculty of Education will offer people directly and indirectly involved in education a practical opportunity to focus on key issues. The Myer Horowitz Institute has been created to meet a professional development demand to look at the changes in Alberta's education system as well as the effects that Alberta Education's three-year business plan will have on it.

Operated via Continuing Professional Education (CPE) in the Faculty, the Horowitz Institute will hold its first "think tank" on 28 February with more than 80 participants. "Leaders of stakeholder groups are invited," says Director Sharon Jamieson, "and we're asking them to provide us with direction and suggestions for future sessions." Representatives from Alberta and Advanced Education, home and school associations, school superintendents and principals are among those who will give input. Dr Jamieson hopes that the Horowitz Institute will offer four or five professional development sessions per year. The plan is for one of those to be a "think tank" where input can be provided to establish priorities for future Institute events.

Dr Jamieson points out that on the basis of initial feedback from stakeholders, major topics for consideration by the Horowitz Institute will relate to the 1994 changes in The School Act. She goes on to add that other topics will be identified once further discussion has taken place to determine the interests of community leaders, school trustees, parents, teachers, students and administrators.

According to Dr Jamieson, the Institute will use a collaborative approach to its events, ensuring that each participant can contribute to and benefit from the learning experience. "We will listen to our stakeholders," she says, "and give them the type of program they want, give them an opportunity to work within a collaborative environment." Each event, she says, will focus on a topical issue in Alberta education and will integrate theory with practice as well as encouraging active involvement.

The Horowitz Institute has been enthusiastically received by the province's education sector and others interested in the field. People like the idea of having a forum where they can come together to discuss the way

education is changing and offer alternatives for change, Dr Jamieson told *Folio*.

Each session will employ a team of experts involving professionals from the field as well as faculty and graduate students specializing in the particular topic. Working in teams, participants will gain an appreciation of differing local perspectives and develop a framework for future action in their own professional context. Following each Horowitz Institute, CPE will maintain contact with participants in order to follow-up on progress and provide advice and feedback.

The Institute is named in honour of Myer Horowitz, a former President of the

University (1979-89), a former Dean of Education, and now Professor Emeritus of Education. Dr Horowitz will present the inaugural Horowitz Lecture, "Educational Change in the 1990's; Beyond the Bottom Line" to officially open the Institute. This first Institute will encourage participants to identify ways current changes in educational policy can have a clear effect on the education of children and improve conditions for learning in Alberta schools. "We will ask people to step back from the specific context of their organizations," Dr Jamieson points out, "and pose and address complex questions that affect the education of children into the 21st century."

Agriculture/Forestry Range Team reaps highest honours

By Barry Irving

The 1995 U of A Range Team, competing in Phoenix, Arizona, placed first on the Undergraduate Range Management Exam with the highest score ever achieved in the competitions. The team beat the nearest competitor (Colorado State University) by 12 percent.

The academic competition involves identifying 100 plants from samples taken at any growth phase (seed, bud, tree). The test samples are selected from 200 common range plants found in western North America. Only 60 grow in Canada.

Individual honours went to Candy Shkrobot, Lisa Palmer and Chris Bayduza who came first, second and third in individual competition and achieved the highest marks awarded in several years. Shkrobot was awarded an all-expenses paid trip to Washington, D.C. where she will be hosted by the US Forest Service. She will hobnob with senators and congressmen, as well as the heads of the Forest Service, Bureau of Land Management, and the Soil Conservation Service. Shkrobot says she hopes to find time to visit the Canadian Embassy.

The team also placed third, with a 93 percent average, in the second academic competition - the Plant Identification Contest. Bayduza, who was competing for the second time, came within a whisker of winning the highest combined score of the two exams. He was only 15/1000 of a point behind the winner who was from Utah State University.

The competitions are sponsored by the Society for Range Management. They are an annual event and attract about 20 universities and colleges from the western 17 states, Canada and Mexico. The universities are collectively represented by about 200 undergraduates.



1995 Range Team members (all from Environmental and Conservation Science except for Bailey, Bogen and Irving from Agricultural, Food and Nutritional Science). Seated left to right: Candy Shkrobot (Edmonton), coach Barry Irving, Chris Bayduza (Sherwood Park), Lisa Palmer (Francois Lake, BC). Standing left to right: Andi Lines (Fort McMurray), Selena Cole (Edmonton), team manager Dr AW Bailey, Angela Bogen (Consort) and Cam Lane (Lloydminster). Missing from photo: assistant coach Omar Angeles.

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Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be reprinted with acknowledgment.

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VITAL victorious in 'name the system contest'

By Folio staff

VITAL it is! The name, which stands for Valuable Information for Tracking Alumni, goes on the new computer system in Development and Community Affairs. It was one of a dozen names suggested by DCA staff for the unit's name the system contest.

Part-time programmer Peggy Ward, who submitted the winning entry, said, "It [VITAL] came to me while driving home from work." Ward will receive a \$75 gift

certificate to the restaurant of her choice. The runner-up was FARIS (Friends and Alumni Record Information System), profffered by Dawn Kern. She will also receive a gift certificate.

The system, purchased from Viking Systems Inc, replaces an outmoded mainframe system. Geared to the support of fundraising and fundraising, the system will track approximately 180,000 alumni, as well as potential donors and friends of the U of A.

Provincial Treasurer meets with finance folks

By Sandra Halme

At the invitation of Glen Mumey, Chair of the Department of Finance and Management Science, Faculty of Business, Provincial Treasurer Jim Dinning led a small discussion group in the department last week.

The 90-minute session dealt with financial issues and policies of importance to Alberta's economy. The discussion was aimed at promoting interaction and building a closer relationship between the Alberta Treasury and finance experts on campus. According to Dr Mumey, the discussion was wide-ranging and informative. He invited all faculty in his department as well as faculty from Economics, Rural Economy

and Accounting and Management Information Systems to take part in the discussions.

Dr Mumey would like to see the Provincial Treasurer visit the department annually and pointed out that this was the first time that a cabinet minister had spent time within one department. Previous visits were made to the Faculty of Business as a whole.

Alberta cabinet ministers are no strangers to the Business School. Premier Ralph Klein, for example, regularly attends the Faculty's annual Canadian Business Leader Award dinner and has already accepted the invitation to the 1995 edition which will take place 27 March.

CURRENTS

Engineering students will host and compete in national competition

Canada's top undergraduate engineering students will be on campus 3 and 4 March for the 1995 Canadian Engineering Competition. The winners of the Atlantic, Ontario, Quebec and Western (the U of A competes at Victoria this weekend) engineering competitions will compete in the following categories: Entrepreneurial Design, Corporate Design, Explanatory Communications, Editorial Communications and Extemporaneous Debate. Competitions will be held in the Mechanical Engineering Building from 1-5 pm on 3 March and from 8 am-5pm on 4 March. For further information on the event, call the CEC office at 439-8382.

Early retirement social for Dennis Grover

The Office of the Comptroller invites members of the University community to an early retirement social for Dennis Grover. Date: Thursday, 23 February. Location: Lister Hall Map Room. Time: 3:30-5 pm. By request, contributions toward a gift should be donated to the University of Alberta Library. Contributions can be sent to Nel Mandziuk, 3rd Floor Administration Building.

More Currents on page 3



University
of
Alberta

Medical students anxious about futures

By Folio staff

Questions about job opportunities were on many minds as medical students met with instructors and practitioners during the Faculty of Medicine's annual Careers Day held 28 January.

Today's medical students have difficult choices to make. The increasing government regulation of the profession coupled with health care cuts across the country are forcing students in medicine to evaluate their options more carefully than ever before. They must decide early in the fourth year of the MD program whether to enter a postgraduate program in family medicine or in one of 29 specialties.

"It's hard to see into the future. It's scary. One is forced to make a decision affecting one's whole life. It almost seems like a basic human right [choice of profession] is taken away," says Jaret Olson, a third year student.

Olson's classmate, Mike Allegretto, agrees that it is frustrating to know that if he changes his mind after a year or two in a program, there may be little opportunity to re-enter the system in another field.

An MD degree (usually achieved in seven years) does not entitle someone to practice medicine. Further training is a requirement; at least two years for certification by the College of Family Physicians, or at least four to six years for specialty certification by the Royal College of Physicians

and Surgeons. For individuals seeking subspecialty or research careers, an additional two to four years of training is required.

It is the provinces through their ministries of health that provide salaries to support postgraduate trainees. A province has a commitment to fund an individual for the minimum number of years of training required to achieve certification as a family physician or specialist. In June 1994, all provinces agreed to provide funding for only enough training positions to equal the anticipated number of graduates from its medical schools. This practice leaves very little room for movement within the system.

"Resource planning in Medicine is difficult because people entering the postgraduate system may not join the work force for about six years," says George Goldsand, Associate Dean for Postgraduate Education. "In six years a lot can change in the system. For example, a technological advance may create either a sudden demand for certain specialists/subspecialists or reduce the numbers needed of others. Or massive reorganization, such as the consolidation of hospitals that is occurring in Alberta, can create an excess of physicians in fields in which there were perceived shortages only a year previously."

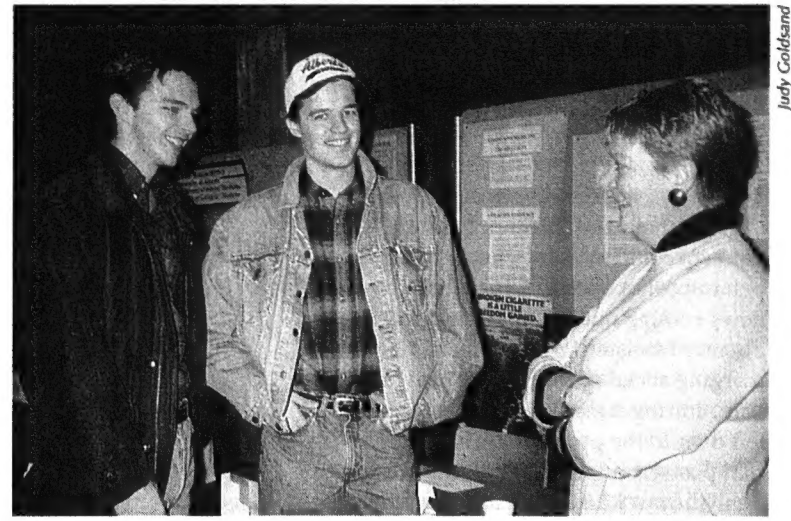
Dr Goldsand agrees that the present rules, in which students are almost locked into the system once they start in a

specialty, are unfair. He accepts that some resource planning is needed for governments to be fiscally responsible and to ensure that society's needs are met, but contends that greater flexibility is needed.

"There have to be ways for students to change direction if they find themselves in programs that aren't right for them," says Dr Goldsand. "We are trying to work with government to develop reasonable policies that will be fair to the health care system and the individual."

During Careers Day, the Faculty gives its students the opportunity to meet and talk individually with program directors or specialists representing many fields of study. General information about licensure requirements, and other career opportunities is also provided.

Dr Rick Spooner, the Faculty's Rural Practice Coordinator, told students about government initiatives to enable both un-



Mike Allegretto and Jaret Olson, centre, third year medical students, discuss career options with Dr Lory Laing, Community Medicine Program Director, during the Faculty's Careers Day.

dergraduate and postgraduate students to take some of their training in rural areas. This is being done to provide better exposure to the very different nature of medical practice in areas with less access to a wide variety of specialists in full service hospitals.

Dr Larry Ohlhauser, Registrar of the College of Physicians and Surgeons of Alberta, tried to reassure students about their futures, saying, "There will be room for you to use your knowledge and skills; maybe not exactly in the way you thought, but you will be needed."

Research cornucopia aims to build on initial success

By Folio staff

Research Revelations '94 was indeed revelatory.

The first major interdisciplinary research exposition ever held on campus, it brought researchers from many disciplines together and placed the accent on interaction.

"As with last year, Research Revelations '95 promises to be an excellent opportunity to meet colleagues and exchange research ideas," says Martha Piper, Vice-President (Research), whose office sponsors the event. Bob Crawford (Chemistry), who chairs the organizing committee, adds, "We're going to

have every bit as much success as last year."

The objectives of the exposition are: to create opportunities for collaborative, interdisciplinary research projects, and to give researchers, graduate students, staff and others an opportunity to meet colleagues in other academic units and to discover the wide range of research activity that is taking place here.

Research Revelations '95 will be held Saturday, 4 March, from 10 am to 5 pm on the second floor of the Heritage Medical Research Building. While there will again be about 275

displays, they will be accommodated in about 20 percent more space.

Drs Piper and Crawford emphasize that entries will be accepted on a first-come, first-served basis, and that no pre-selection or review will take place.

In addition to Dr Crawford, Research Revelations' organizing committee consists of: Gene Lechelt (Psychology), David Norwood (VP Research Office), Rita Spencer (Medicine), Mike Stiles (Agriculture, Forestry, and Home Economics) and Allan Tupper (Arts).

Admission *Continued from page 1*

sign are "help text" fields which guide the student through the completion of the form. Once students have completed the electronic application, it will be transmitted to the appropriate university where processing can begin. Should an applicant decide to apply to more than one of the participating institutions, data which is common to all three applications will be automatically populated in the second and subsequent applications, eliminating the need for the

applicant to re-key the data. Once the electronic application form is received at the university, the file will be uploaded to the mainframe system thereby eliminating the need for re-entry of the data.

Reaction from schools participating in the University's pilot project (Harry Ainlay, Ross Sheppard and Strathcona) have been very positive. It is anticipated that the University will receive about 800 applications electronically for the 1995-96 Winter Ses-

sion. The onslaught of applications is expected to begin anytime now.

Although specific plans for development of this project beyond the pilot level have not been formulated, long range goals include expanding the program to make it accessible to all high school students in the province as well as the addition of other postsecondary schools, possibly from outside Alberta. Emerging technologies such as the Internet also hold great promise as vehicles for future interactive communication.

Currents *Continued from page 2*

Students invited to serve on GFC committees

The terms of office of student members serving on GFC standing committees and committees to which GFC elects members will expire 30 April. Undergraduate and graduate students are encouraged to consider serving on the following committees for a term of office from 1 May 1995 to 30 April 1996: Academic Appeals Committee; Academic Development Committee; Campus Law Review Committee; Committee on Admissions, Academic Standing and

Transfer; Committee for the Improvement of Teaching and Learning; Council on Student Life; GFC Executive Committee; Facilities Development Committee; Library Committee; Planning and Priorities Committee; Special Sessions Committee; Undergraduate Awards and Scholarship Committee; Undergraduate Teaching Awards Committee; and University Appeal Board.

Students interested in serving on any of these committees are invited to contact the Coordinator, GFC Nominating Committee, 2-5 University Hall, 492-1938/4965.

No Folio next week

Folio will not publish next Friday, 24 February (close of Reading Week).

In order to be included in the 3 March issue, notice of coming events must reach the Office of Public Affairs by 9 am on 24 February; classified and display advertising must be received by 3 pm that day.

GFC BRIEFS

Faculty renewal top priority

The topic of faculty renewal will be discussed at an upcoming retreat, President Rod Fraser told General Faculties Council, 6 February. The University of Alberta must have the right combination of policies in place, even at a time of budgetary restraint, he said. Faculty renewal is important, particularly considering the aspirations the University has set out in its strategic plan.

APO Agreement changes approved

GFC approved changes to the Administrative Professional Officer Agreement. The Agreement has been ratified by the Board of Governors and the Association of Academic Staff. The changes affect about 250 people.

The Agreement has been completely restructured; grievance procedures have been reworked, and changes have been made to parental and childbirth leaves and to rules governing professional leaves.

Much of the negotiations have taken place on the termination of employment provisions. The Association felt the existing provision made it much too easy for the University to lay off APOs. A determination that there is a state of financial exigency remains before layoffs can occur. Under the old Agreement, severance pay was one month's salary for each year of service to a maximum of 12 months. The new Agreement calls for one month's salary for each year of service, with a minimum of three months and a maximum of 12 months. In other words, an APO would receive three months' salary regardless of the amount of service they had put in.

Postsecondary education on tenterhooks Federal cuts could result in \$2.6 billion loss to universities

By Kimberley Krushell, President, Graduate Students' Association

With the federal budget set to be announced this month, there is rampant speculation as to what is going to happen to postsecondary education. The latest news coming out of Ottawa indicates that Finance Minister Paul Martin is planning on merging social spending into one lump sum, cutting it and then passing whatever is left over to the provinces. This could mean that postsecondary institutions will suddenly be out \$2.6 billion and the federal government will no longer play a role in postsecondary education.

One of the major questions regarding this latest development is how are students going to afford to attend postsecondary institutions if tuition doubles in one year and a new loan system is not put in place. We know that the present Canada Student Loan Plan would not be able to accommodate this increase without massive increases in the borrowing limits.

In Alberta, the Minister of Advanced Education and Career Development, Jack Ady has stated that if these federal cuts do occur, they will have to be passed on to students in the form of tuition increases. This will mean that a number of students will not be able to afford to go to university and if these cuts were to happen in one year many students now enrolled in programs will have to drop out.

For the institutions themselves enrollments are a major concern. This is particularly true in this province. In 1993-94,



Kimberley Krushell

Ady created regulations that prohibit institutions from dropping enrollment 2 percent below the 1993-94 levels. If an institution does drop below those levels it is penalized \$2,500 for every unfilled position below the 2 percent

level. This money is taken out of that institution's operating grant. If you were to calculate the lost tuition from these students into the equation an institution could lose \$5,000 per student below that 2 percent enrollment level. For the University of Alberta, which had its highest enrollment levels ever in 1993-94, this is a major concern.

Another area of concern for research institutions is research infrastructure funding. The \$2.6 billion cash transfer payments helped research-intensive universities defray some of the research infrastructure costs that are not addressed by private donations, such as capital spending on labs, and maintaining lighting. However, if that money is suddenly gone there is a big question as to how the universities are going to pay these bills.

At the moment there is still a lot of speculation as to the amount the budget is going to cut funding. If, however, the federal Minister of Finance does make these cuts then I am afraid that postsecondary education in Canada will be devastated.

'Piano magic' comes to Convocation Hall

By Gladys Odegard

Rave reviews followed Marek Jablonski's recent Chopin Concert Tour to five centres in the Peace River region.

Edmontonians will now have the opportunity to hear his "piano magic" too as the Music at Convocation Hall Series features Jablonski on 18 February.

A pre-concert introduction by University of Alberta faculty member Richard Troeger at 7 pm will be followed by a reception. Lorraine Mansbridge, ITV News, will be the guest host for the concert, which begins at 8 pm.

The program includes four works by Frederic Chopin. Of particular interest will

be a group of Mazurkas by Karol Szymanowski. The concert will end with three works by Franz Liszt, including a Hungarian Rhapsody.

Jablonski has taken on a professorship at the University of Alberta. He continues to give regular master classes at the Royal Conservatory in Toronto and at the Peabody Conservatory in Baltimore, Maryland.

Tickets for the 18 February performance are \$10 for adults, \$5 for students and seniors. More information is available from the Music Department Office at 492-0601. Tickets are available through this office or at the door.

SENATE BRIEFS

Deputy Minister makes pitch for applied degree

Advanced Education and Career Development Deputy Minister Lynne Duncan says the provincial government's proposed applied degree, outlined in the government's recent white paper, will be test piloted in a maximum of eight demonstration projects.

"We want to see how it works," she told University of Alberta Senators last Friday. Duncan said the government was not interested in seeing diplomas disappear from Alberta's postsecondary education system. "We're interested in laddering."

There will be a significant work experience component for the applied degrees, she said, and business will be expected to pay real salaries to students enrolled in the applied degree programs.

Senate on the road

Senators were told of the small-group meetings that will be held in Vegreville, Leduc, Peace River, Stettler and St. Paul. Small groups of Senators and on-campus officials will be travelling to these communities to talk about U of A programs and achievements and to get feedback from the community representatives.

Task Force work well under way

The Senate's Task Force on Technology in Learning has completed two weeks of interviews with faculty, the private sector and officials in the school system. Chair Dianne Storey informed Senators that the next steps are to consolidate the information, decide issues to be included in the task force's report and identify areas where more information is needed.

"Responses to date have been of high quality, and we are finding that there are many pockets of activity across the campus," Storey outlined. "The projects and developments we have seen are exciting, and the University seems to be well positioned to take advantage of new technologies and innovative applications of technology."

New members wanted

The Senate is advertising across the province for nominations to Senate. It's expected a slate of names for election will be tabled at the May meeting.

Mary Totman retiring

Executive Officer Mary Totman is retiring from her Senate duties at the end of the academic year. Senate has established a search committee.

Nominations for academic staff to serve on the Board of Governors

On 1 August 1995, there will be a vacancy on the Board of Governors for one academic staff representative. This position is currently held by Dr Ron Bercov, Department of Mathematics. The other academic staff representative on the Board is Dr Gary Faulkner, Department of Mechanical Engineering.

The procedures which govern these elections are contained in Section 22 of the GFC Policy Manual and are available in the University Secretariat, 2-5 University Hall, or on CWIS (Campus Wide Information System). These regulations provide that the academic staff representatives on the Board may be full- or part-time continuing academic staff (Category A1.0) and that at least one of the two representatives be a full-time continuing member of the teaching faculty (Category A1.1) who does not hold an administrative position.

Since Dr Faulkner does not hold an administrative position, the vacancy to be

filled this summer is open to any member of Category A1.0.

Nominations are therefore now being sought from among continuing academic staff in Category A1.0.

Nominations can be submitted in writing to Ellen Schoeck, Secretary to GFC, 2-1 University Hall. Nominations must be supported by the signatures of five full- or part-time continuing academic staff (other than the nominee) and must be RECEIVED in the University Secretariat by Friday, 10 March 1995 at 12 o'clock noon. Nominees must be willing to serve and will normally serve a three-year term on both the Board and General Faculties Council. A biographical sketch of the nominee should accompany the letter of nomination.

Any questions about these procedures should be directed to Ellen Schoeck at 492-5430 or on PROFS (eschoeck@vm.ucs.ualberta.ca).

Public catalogue, circulation system down for two days

The complexity of the file maintenance work and the sheer size of the file (3.2 million records) necessitate closure of the Library's public catalogue and circulation system for two days. This interruption of service is planned to coincide with the Family Day weekend.

Libraries will be open Sunday, 19 February, but all Circulation/Access service points will be closed that day. The Library's online catalogue (The GATE) will not be available. The following services will be offered:

- Reference and Information service desks in Rutherford Library and the HT Coutts Education Library only will provide assistance using resources other than The GATE;
- The Health Knowledge Network databases (Cancerlit, Medline, CINAHL, Health), ERIC, and individual CD-ROM databases will be up and running;
- Library patrons will be able to study, consult the collections, and photocopy as usual.

Patrons are urged to sign-out the Reserve materials, books and periodicals they need before 19 February.

All Libraries will be closed on Family Day, 20 February.

LAURELS

■ Geography Professors **Ian Campbell** and **Ron Eytan** have received a \$3,200 award from The Alberta Sport, Recreation, and Wildlife Foundation. The award is to develop a satellite image-based, interpretive landform display for Dinosaur Provincial Park. The display will be prepared for the 40th anniversary of the park and will be at the Field Station of the Royal Tyrrell Museum of Paleontology at the park.

■ **Leszek Kosinski**, Professor Emeritus, Geography, has been elected by the General Assembly of the International Social Science Council (ISSC) to serve a four-year term as its Secretary General. ISSC is a nongovernment organization located in Paris. Its major aim is to advance the social

sciences and their application to major contemporary problems.

■ The Handweavers Guild of America has awarded scholarships to Human Ecology students **Yolanda Olivotto** and **Joëlle Renzi**. Both are working towards the degree of Master's of Textile Science.

■ **Alastair Small's** involvement in the archaeology of the area around Gravina-in-Puglia, Italy, began nearly 30 years ago. A professor in the Department of History and Classics, Dr Small was recently made an honorary citizen of that city and was given a commemorative scroll and the gold medal of the city. Dr Small, who is currently on study leave, says he is the first person, "as far as anybody can remember," to receive that honour for "culture".

FOCUS ON Faculties: Science

Ninth part of a 16-part series on the University of Alberta's Faculties.
Next: Faculty of Dentistry

FACULTY OF SCIENCE FACTS

Departments:

Biological Sciences
Chemistry
Computing Science
Geography
Geology
Mathematical Sciences
Physics
Psychology

Teaching faculty: 287

University-funded support staff: 241

Undergraduate students: 4,458

Course registrations: 49,900

Graduate students: 765

% PhD 56

% MSc 44

Trust/Grant-funded support staff: 106

Postdoctoral fellows: 119

Research associates: 55

Trust/Grant/Contract research funding: \$20.5 million

Operating budget 1993-94: \$45.9 million

Industrial internship programs in:

Biological Sciences
Cell Biotechnology
Chemistry
Computing Science
Environmental Physical Sciences
Genetics
Microbiology

Dean: Richard Peter

Associate Deans: Graham Chambers,
Jim Campbell (Student Services),
Brian Dunford (Research)

Prominent alumni: Richard Taylor (BSc'50, MSc'52), Nobel Prize recipient for Physics; Jay Ingram (BSc'67), broadcast journalist with the Discovery Channel; Ray Lemieux (BSc'42), recipient of numerous international awards for carbohydrate chemistry; Gerry Bolton (BSc'69, PhD'74), Manager of Business Development for Sherritt Inc.

Faculty offers students a multitude of program choices

Industrial internship programs present new work experiences for specialization and honors students

By Michael Robb

Big. That's how many people describe the University of Alberta's Faculty of Science. Certainly the numbers support that description: 4,458 undergraduates, 765 graduate students, 287 teaching faculty, almost that many support staff and more than 100 postdoctoral fellows.

But what does that mean for students? In a word, opportunity.

According to the president of the Science Undergraduates Society, Anthony Briggs, that tremendous size means the opportunities are virtually limitless. There are tremendous opportunities to get involved in professors' research programs. "I've had a lot of different experiences that I otherwise wouldn't have had at the colleges or in other Faculties," says the fourth-year biochemistry student, who during the summers has spent time doing laboratory work.

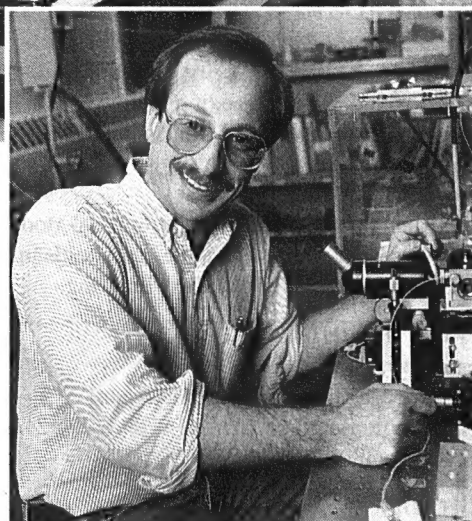
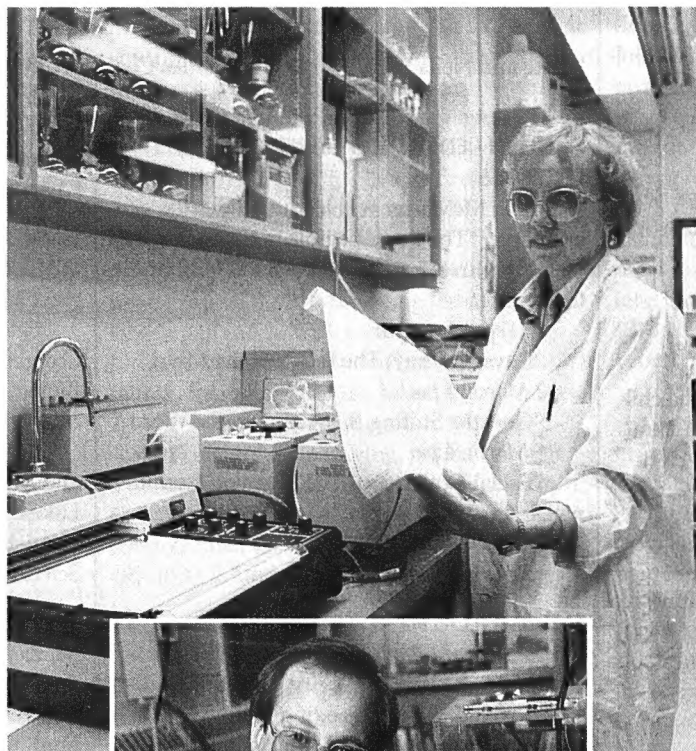
"The last four years of my life have been the most fascinating," adds Matthew Danchuk, a Faculty of Science student representative on Students' Union. "We're in a world-class University."

Dean Dick Peter says the Faculty is certainly one of the best in the country. "We offer a lot to graduate and undergraduate students."

But size has its costs. Both students say the student body is apathetic, compared to its campus counterparts. Participation in clubs in other Faculties is much higher than in Science, says Briggs. Students in the Faculty of Science seem to be primarily concerned about maintaining their high academic standing.

"If you can survive Science you can survive anything," says Danchuk. Adds Briggs, it's getting tougher. Competition is intense, he says, pointing out that the admission cutoff means virtually every single student is a high school honors student.

Last year, that cutoff was 78 percent. Dr Peter says that's had an extraordinary impact



Graduate students from across the country and around the world want to study with chemist Norm Dovichi, and biological sciences professor Ellie Prepas.

on the classroom. Professors have noticed the difference, he says, adding that it is unfortunate that the cutoff wasn't lower. Certainly, data suggests students with lower averages, for example, 75 percent, could be just as successful in the Faculty, he points out.

Over the past few years, the Faculty of Science has taken a critical look at what it's offering those highly motivated students. That review, says the Dean, has resulted in a variety of new program offerings. Links with other Faculties and the corporate world have been expanded dramatically. For example, specialization and honors students can now enroll in industrial internship programs in seven areas: biological sciences, cell technology, chemistry, computing science, environmental physical sciences, genetics and microbiology.

The University has also approved a host of new programs in the Faculty, many designed to meet work force needs.

They include: BSc with specialization in computing science, minor in business; BSc (General), minor in business; BSc with specialization in mathematics and finance; BSc with specialization in mathematics and statistics for actuarial science; BSc

with honors in cell biology and BSc with specialization in cell biology; BSc with honors in neuroscience; and BSc with specialization in environmental physical science.

"These [new] programs are not designed for yesterday; they're appropriate for today and tomorrow," says the Dean, pointing out that many changes have been based on suggestions put forward by students and members of the Faculty's Visiting Committee.

While the Faculty's strengthening of its teaching programs has occurred fairly recently, its successes on the research front have been over a longer period of time. In spite of tough times, says the Dean, the Faculty has managed to increase the money, relative to its competitors, it receives from the Natural Sciences and Engineering Research Council. "That's one sign our Faculty is doing better than ever." In 1994-95, the Faculty esti-

mates it will receive \$20.5 million in trust, grant and contract research funding.

Maintaining that research effort is the Faculty's single biggest challenge, Dr Peter says. And if the major granting councils claw back their support, that could mean trouble for the Faculty. "We have to remain active in research and to continue to link research with teaching."

A related issue for the Faculty—as it is with most Faculties on campus—is recruitment. But unlike other Faculties, Science has a fairly even demographic distribution of its professoriate. About one-third are due to retire, another third are in mid-career and another third are relatively young and just establishing their careers. About seven professors were hired last year. The Dean points out that it's enormously expensive to set up professors with the appropriate resources to support their research programs. But the University has to do it, or the young researchers are disadvantaged in their ability to compete for research support, Dr Peter explains.

Asked what Science professors are most concerned about, the Dean says many are asking whether they can continue to be scientists. "Is the pressure of the teaching load going to be such that research eventually suffers? That's foremost in their minds. We simply have to have strategies in place to ensure that balance."

Meantime, on the external front, Dr Peter says it's critical the faculty continue to talk about what they do and why their work is important. "Ten years ago we were an ivory tower—and we deserved the reputation. I think that's changed."

What hasn't changed, however, say the students, is the extent to which faculty members remain dedicated and hard working. "Take a walk around here at about 11 at night," says Danchuk. "There are a lot of very driven and dedicated people in this Faculty."

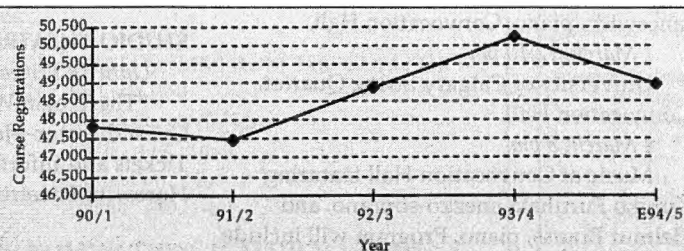
Dean of Science
Dick Peter

Science plays host to Visiting Committee today

The Faculty is playing host to its Visiting Committee today. Twenty-two visitors are expected to tour laboratories, meet with students, be briefed on research programs and hear presentations by some of the Faculty's top researchers.

Those visitors are:

- Don Currie, Managing Director of Alberta Chamber of Resources
- Lynne Duncan, Deputy Minister of Advanced Education and Career Development
- John Ferguson, President and CEO of Princeton Developments Ltd
- John Hanlon, Host of CBC Radio's "Wild Rose Country"
- Rand Harrison, Executive Director, Technology and Research Branch, Alberta Economic Development and Tourism
- Kenneth Higginbotham, Assistant Deputy Minister of Land and Forest Service
- John Holden, Manager of Facilities, Engineering and Construction for Alberta Wheat Pool
- Louis Hyndman, Chancellor of the University of Alberta
- Daniel Kenway, President of Vision Smart
- Donald Lee, Justice of the Court of Queen's Bench of Alberta
- David Lewin, Vice-President of Edmonton Power



Course registrations in the Faculty of Science reflect a heavy teaching load.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

28 February, 4 pm

Mark FA Van Berkum, postdoctoral fellow, Department of Molecular and Cell Biology, University of California, Berkeley, "Calcium-Calmodulin Signal Transduction in the *Drosophila* Neuronal Growth Cone During Development." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

BIOLOGICAL SCIENCES

3 March, 4:15 pm

Bill Paranchych, "Bacterial Pili: From Sex to Synthetic Peptide Vaccines." 3-27 Earth Sciences Centre.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

17 February, 7:30 pm

Lesia Voronyina, editor-in-chief of the children's magazine *Co*, Kyiv, "Children's Literature in Ukraine Today" (in Ukrainian). Heritage Lounge, Athabasca Hall.

CHEMICAL ENGINEERING

23 February, 2 pm

Lanny D Schmidt, University of Minnesota, "Partial Oxidation of Alkanes on Pt and Rh at Millisecond Contact Times." 342 Chemical-Mineral Engineering Building.

23 February, 3:30 pm

Ravi Sharma, "Bifurcation Structures in Rotating and Heated Flows in a Straight Duct." 342 Chemical-Mineral Engineering Building.

2 March, 3:30 pm

Mary Bourke, "Fuzzy Logic—An Introduction to Control Applications." 342 Chemical-Mineral Engineering Building.

COMPARATIVE ANIMAL PHYSIOLOGY AND CELL BIOLOGY

28 February, 12:30 pm

Lynn Hale, "Using Molecular Biology to Make Antibodies." G-114 Biological Sciences Centre.

7 March, 12:30 pm

Bev Mitchell and Marie-Pascale Rivet, "Integration of Primary Taste Input in Higher Flies." G-114 Biological Sciences Centre.

EIGHTEENTH-CENTURY STUDIES GROUP

1 March, 4 pm

Rick Szostak, "Economic History and the Industrial Revolution." Senate Chamber, Arts Building.

ENGLISH

28 February, 12:30 pm

Karen Overbye, "The Politics of Passing: Performing Whiteness in the Lives of Walter

TALKS

White and Nella Larsen." L-3 Humanities Centre.

ENGLISH - EDMUND KEMPER BROADUS LECTURES

Juliet McMaster will lecture under the general topic, "The Body Legible in the Eighteenth-Century Novel." All lectures in L-1 Humanities Centre.

28 February, 4 pm

"Physiognomy: The Index of the Mind."

2 March, 4 pm

"Gesture: Suiting the Action to the Word."

6 March, 4 pm

"Facial Expression: The Meaning Countenance."

8 March, 4 pm

"Reading the Body in *Clarissa*."

ENTOMOLOGY

23 February, 4 pm

Paul Schouten, "Velocity Detection and its Relationship to Filter-Feeding in the Mayfly Nymph *Ametropus neavei* (Ametropodidae)." TB-W1 Tory Building.

2 March, 4 pm

Allen Meyer, "An Insect Pest of Saskatoons, 'the Cherry Shootborer' and its Parasitoids in the Boreal Forest." TB-W1 Tory Building.

FACULTÉ SAINT-JEAN

3 mars, 8h45

Journée du Savoir. Organisée par l'ACFAS-Alberta. Renseignements: 465-8769. Salles 247 et 150, Faculté Saint-Jean.

GEOGRAPHY

3 March, 3 pm

Lingyan Xin, "Effects of Convergence on Precipitation." 3-36 Tory Building.

10 March, 3 pm

Tim Oke, Department of Geography, University of British Columbia, "The Importance of Diversity in Research Approach: Studies in Urban Climate." 3-36 Tory Building.

GEOLOGY

28 February, 11 am

Doug Schmitt, "Seismic Velocity and Rock Material Properties." 1-04 Earth Sciences Building.

HUMAN ECOLOGY

27 February, 3:30 pm

Issues in the North. Ross W Wein, "Environmental Issues in the Arctic." Main Floor Chapel, St. Stephen's College.

LIMNOLOGY AND FISHERIES

DISCUSSION GROUP

2 March, 12:35 pm

Peter Aku, "Amisk Lake Hypolimnetic Oxygenation Project: The Fish Story." G-116 Biological Sciences Centre.

9 March, 12:30 pm

Todd Sellers, "Distribution of Lake Trout and *Mysis relicta* in Small Canadian Shield Lakes: Temperature, Oxygen, and Light Characteristics of Their Habitat." G-116 Biological Sciences Centre.

PERINATAL RESEARCH CENTRE

28 February, noon

John Van Aerde, "Total Parenteral Nutrition and Neonatal Liver Diseases: Predicted Findings and Unexpected Discoveries." 2J4.02 Mackenzie Health Sciences Centre.

PHILOSOPHY

3 March, 3:30 pm

Marc Ereshefsky, Department of Philosophy, University of Calgary, "Unity and Disunity in Biological Classification." 4-29 Humanities Centre.

PHYSICS

17 February, 2 pm

Mary Cannell, Nottingham, England, "George Green, Mathematician and Physicist: The Background to his Life and Work." V-129 Physics Building.

PHYSIOLOGY

17 February, 3:30 pm

Richard Jones, "High Frequency Chest Compression: The Potential Uses in Pulmonary Medicine." 207 Heritage Medical Research Centre.

3 March, 3:30 pm

Marek Duszyk, "Ion Channels in Human Airway Epithelial Cells." 207 Heritage Medical Research Centre.

RENEWABLE RESOURCES

28 February, 3 pm

James A McNutt, president and CEO, Jaakko Pöyry Consulting Inc, Tarrytown, New York, "Global Fiber Resources Situation—The Challenges for the 1990's." Myer Horowitz Theatre, SUB.

1 March, noon

Peter Lee, "A Novel Perspective on Biodiversity in Forested Ecosystems." 849 General Services Building.

9 March, 12:30 pm

Claudia Palylyk, "Unraveling Environmental Law." 2-36 Earth Sciences Building.

RESEARCH SEMINARS IN EARLY WOMEN

28 February, noon

Jean Campbell, "Gendered Discourse in Semone Martini's *Maestà*." Senate Chamber, Arts Building.

RURAL ECONOMY

27 February, 3:15 pm

Sea A Royer, "Value of Water Rights in Southern Alberta." 519 General Services Building.

SOCIETY OF EDMONTON DEMOGRAPHERS

22 February, noon

Andrew Macpherson, Sustainable Population Society, "Rising Population and Consumption: Are There Limits?" Heritage Room, Main Floor, City Hall.

SOCIOLOGY

28 February, 12:30 pm

Walter R Heinz, University of Bremen, Germany, "Life Course Research: Interdisciplinary Theoretical Advances." 5-15 Tory Building.

1 March, noon

Dr Heinz, "Cross-Cultural Perspectives on Transitions in Youth." 5-15 Tory Building. Lectures are cosponsored by Germanic Languages, Political Science, Psychology, and Educational Policy Studies.

ZOOLOGY

17 February, 3:30 pm

Catherine Loudon, Department of Entomology, Kansas State University, "Physics of Chemoreception: Interception of Chemical Signals by Insect Antennae." M-149 Biological Sciences Centre.

This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

EVENTS

EXHIBITIONS

FAB GALLERY

Until 5 March

A Unique Triple Bill. "Scapes" by Louise Asselstine—personal landscapes: photographic images, transformed by the transfer process and the addition of hand colouring. "Through the looking glass" by Eleanor Lazare. At the heart of these photographs, taken from a highrise apartment, lies great respect for the deceptiveness of the ordinary. "By drawing on the wind" by Peter Bartl. Marcel Duchamp and Marshall McLuhan, the patron saints of computer art, meet the Sphinx in cyberspace. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

McMULLEN GALLERY

Until 2 March

"Tribute—Fifteen Years of Alberta Craft." An exhibition of handmade craft works in a variety of media by 25 artists who were founding members of the Alberta Craft Council. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm; Monday, Tuesday, Thursday, 6 to 8 pm (subject to availability of volunteers). Information: 492-8428 or 492-4211. Walter C Mackenzie Health Sciences Centre.

FILMS

GERMANIC LANGUAGES

21 February, 7:15 pm

"Hautnah" (1985) German with English subtitles. 141 Arts Building.

7 March, 7:15 pm

"Peppermint Frieden" (1985) German. 141 Arts Building.

MUSIC

DEPARTMENT OF MUSIC

18 February, 8 pm

Music at Convocation Hall featuring Marek Jablonski, piano. Program will include works by Chopin, Szymanowski and Liszt. Lecturer: Richard Troeger. Guest host: Lorraine Mansbridge, co-host, ITV First News. Admission: \$10/adults/ \$5/students and seniors. Convocation Hall.

27 February, 8 pm

Doctor of Music Recital: Peter Jancewicz, piano. Convocation Hall.

1 March, 12:10 pm

University of Calgary String Quartet. Convocation Hall.

4 March, 8 pm

Music at Convocation Hall featuring Kuniko Furuhashi, mezzo-soprano, and Helmut Brauss, piano. Program will include

works by Wolf, Eben, Brahms, de Falla and Rossini. Lecturer: David Gramit. Guest host: DT Baker, critic, *Edmonton Journal*. Admission: \$10/adults \$5/students and seniors. Convocation Hall.

EDMONTON CHAMBER MUSIC SOCIETY

1 March, 8 pm

The Amici Trio. Tickets available at The Gramophone and at the door. Information: 433-4532. Convocation Hall.

THEATRE

STUDIO THEATRE

Until 18 February, 8 pm

"The Trojan Women" by Euripides. Guest director—Jeannette Lambergmont. Tickets and information: 492-2495. Myer Horowitz Theatre.

ADS

ACCOMMODATIONS FOR RENT

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POSITIONS

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ACADEMIC STAFF

Director, Development and Community Relations, Faculty of Business

Reporting to the Dean, the Director, Development and Community Relations, is responsible for assisting the Dean in developing and maintaining relations with the external community including developing and administering Faculty fundraising programs and alumni relations.

The Director edits the Faculty newsletter, *The Edge*, acts as liaison with the Business Advisory Council, and coordinates and promotes the Canadian Business Leadership Dinner.

The ideal candidate will have an MBA or equivalent, an understanding of the Faculty programs and objectives, and experience in fundraising and/or public relations. She/he will be a self-starter with strong organizational and interpersonal skills and excellent oral and written communications skills. The term of the appointment is to 30 June 1997, with the possibility of extension. Salary range from \$40,000 to \$50,000, based on experience and qualifications. Competition closes 22 February 1995. Send applications to: Rodney E Schneck, Dean, Faculty of Business, University of Alberta, 4-40 Business Building, Edmonton, Alberta T6G 2R6. Fax: 492-2510.

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The degree recognizes and honours individuals who:

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- have given meritorious service which contributes to the spiritual and social well-being of the community; and
- have provided leadership in denominational and ecumenical circles.

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St. Stephen's College
8810 - 112 Street
Edmonton, Alberta T6G 2J6
Phone: (403) 439-7311

DEADLINE FOR NOMINATIONS IS MARCH 15, 1995

Volunteer Blood Donors Needed

Will Pay Cash \$10.00 upon each donation.

Require: Women Who Are At Their 8 to 12 weeks of Pregnancy

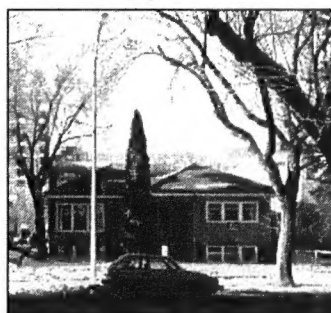
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Department of Immunology
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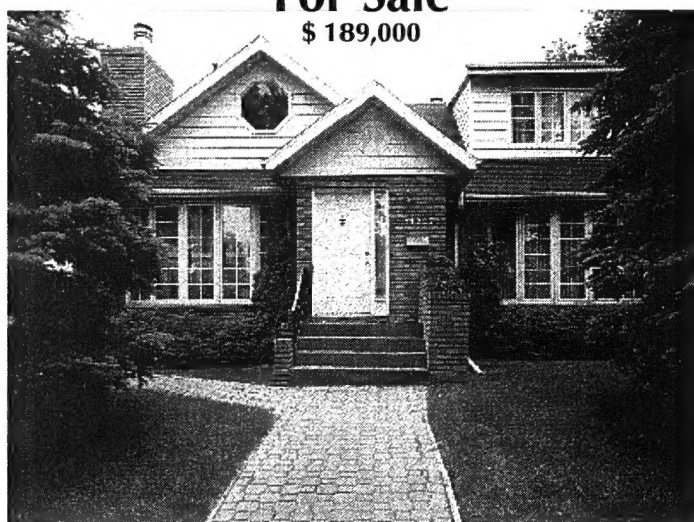
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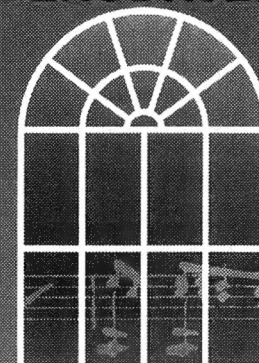
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